### 1873 (360/66).ccls. USPAT; USPAT; USPAGE 17.59 17.	L Number	Hits	Search Text	DB	Time stamp
Secondary actuators		673	(360/66).ccls.	USPAT;	2003/03/12
18-00 18-0				,	
- 38 (360/294.3).ccls. USPAT; USPAT; 2003/03/12 10:2 2003/03/12 10:2 10:2 2003/03/12 10:2 10:2 2003/03/12 10:2 10:2 2003/03/12 10:2 2003/03/12 10:2 10:2 2003/03/12 10:2 10:2 2003/03/12 10:2 10:2 2003/03/12	_	87	(360/294.4).ccls.	1	
18 18 18 18 18 18 18 18			10501001 01 2		
- 12 (360/294).ccls. USPAT; USPAT; 2003/03/12 10:20 10	_	52	(360/294.3).ccls.		1
12		30	/360/294 1) ccls		
- 12 (360/291).ccls. USPAT; US-PGPUB 18:02 (203/03/12	_	30	(360/234.1).CCIS.	· ·	
34 360/291.9).cols. USPAT; USPA	_	12	(360/294).ccls.		
15 (360/292).ccls.					1
15	_	34	(360/291.9).ccls.	USPAT;	2003/03/12
Section Sect		1-	(0.50/0.00)	1	
S5	_	15	(360/292).ccls.	1	1 ' '
Secondary actuator Seconda	_	55	(360/290) ccls	1	
Secondary actuator Seconda			(300/230):0013:	i i	
S70	_	88	(360/240).ccls.		1
((360/294.3).ccls.) ((360/291.).ccls.) DERWENT, (360/292).ccls.) ((360/291.).ccls.) (360/291.).ccls.) (360/291.).ccls.) (360/291.).ccls.) (360/291.).ccls.) (360/292.).ccls.) (360/294.1).ccls.) (360/294.1).ccls.) (360/294.1).ccls.) (360/294.1).ccls.) (360/294.1).ccls.) (360/294.1).ccls.) (360/292.).ccls.) (360/291.9).ccls.) (360/292.).ccls.) (360/292.).ccls.) (360/290.).ccls.) (360/291.9).ccls.) (360/291.9).ccls.) (360/292.).ccls.) (360/290.).ccls.) (360/290.).ccls.) (360/290.).ccls.) DERWENT, IBM, TDB EPO, JPO; DERWENT				US-PGPUB	
((360/294).ccls.) ((360/290).ccls.) ((360/290).ccls.) ((360/240).ccls.) ((360/240).ccls.) ((360/294).ccls.) ((360/294.4).ccls.) ((360/294).ccls.) ((360/294.1).ccls.) ((360/294).ccls.) ((360/291.9).ccls.) ((360/292).ccls.) ((360/290).ccls.) (360/292).ccls.) ((360/290).ccls.) ((360/292).ccls.) ((360/290).ccls.) ((360/292).ccls.) ((360/290).ccls.) (BEWENT; IBM TDB EPO, JPO; DERWENT; IBM TDB EPO, JPO; DERWENT	_	570			1
					18:29
1030 ((360/240).ccls.) ((360/294.4).ccls.) ((360/294.3).ccls.) ((360/294.1).ccls.) ((360/294).ccls.) ((360/294).ccls.) ((360/294).ccls.) ((360/294).ccls.) ((360/294).ccls.) ((360/290).ccls.) ((360/292).ccls.) ((360/290).ccls.) (2003/03/12 18:				TRW_LDB	
1030 ((360/66).ccls.) ((360/294.1).ccls.) ((360/294.3).ccls.) ((360/294).ccls.) ((360/294).ccls.) ((360/291).ccls.) ((360/292).ccls.) ((360/290).ccls.) ((360/290).ccls.) ((360/290).ccls.) ((360/290).ccls.) ((360/290).ccls.) (DERWENT; IBM_TDB_EPO, JPO; DERWENT; I					
(360/294.3).ccls.) (360/294.1).ccls.) (360/294).ccls.) (360/290).ccls.) (360/294).ccls.) (360/290).ccls.) (360/294).ccls.) (360/290).ccls.) (360/369/\$ 29/603\$).ccls. = PO; JPO; DERWENT; IBM TDB EPO; JPO; JPO; JPO; JPO; JPO; JPO; JPO; J	_	1030		USPAT:	2003/03/12
((360/292).ccls.) ((360/290).ccls.) ((360/290).ccls.) ((360/290).ccls.) ((360/290).ccls.) (360/\$ 369/\$ 29/603\$).ccls. EPO; JPO; DERWENT; 18:29 18:29 18					
Graph Grap					
- 92293 (360/\$ 369/\$ 29/603\$).ccls.					
DERWENT; IBM TDB EPFO; JPO; DE		00000	, , , , ,		
S26431 G11B\$ G11B\$ DERWENT; 18:29 2003/03/12 DERWENT; 18:29 18:30	_	92293	(360/\$ 369/\$ 29/603\$).ccis.		
- 526431 G11B\$ - 93527 piezoelectric piezo?electric DERWENT; IBM TDB EPO, JPO; DOS 2003/03/12 DERWENT; IBM TDB EPO, JPO; DOS EPO, JPO; DERWENT; IBM TDB EPO, JPO; DERWEN				1	18:29
DERWENT; IBM_TDB EPO, JPO; DOBNEMENT; IBM_TDB EPO, JPO; DERWENT; IBM_TDB EPO, JPO	_	526431	G11B\$		2003/03/12
- 93527 piezoelectric piezo?electric					
DERWENT; 18:29 18:29 18:29 18:29 18:30 1			•	IBM_TDB	
TBM_TDB TBM_	_	93527	piezoelectric piezo?electric		
1634 magnetostatic magneto?static EPO, JPO; 2003/03/12 18:30 1				1	18:29
DERWENT; IBM TDB EPO; JPO;	_	1634	magnetostatic magneto2static	_	2003/03/12
Time		100.	magnetos tatto magneto. Statto		
micro?actuator DERWENT; 18:30 18:30 196987 round EPO; JPO; DERWENT; 18:30 18:30 18M TDB EPO; JPO; DERWENT; 18:30 18:30 18M TDB EPO; JPO; DERWENT; 18:31 18M TDB EPO; JPO; DERWENT; 18:31 18M TDB EPO; JPO; DERWENT; 18:32 18:32 18:32 18:32 18 18 18 18 18 18 18 1					
Tem_TDB	-	436994			
196987 round EPO; JPO; DERWENT; 18:30 18:30			micro?actuator		18:30
DERWENT; 18:30 18:30 18m TDB EPO; JPO; DERWENT; 18:30	_	196987	round	_	2002/02/12
TBM_TDB		150907	Louis		
- 283712 circular - 767587 ring - 767587 ring - 1820 C?shape - 14868 C?shaped - 29/603\$).ccls.) G11B\$) and ((piezoelectric piezo?electric) ((secondary actuator) micro?actuator) and (round circular ring C?shape C?shaped ((radial radially)) - 2003/03/12 DERWENT; 18:30 - 1820 C?shaped					-5.55
Total Pring Tibm Tob Tibm T	_	283712	circular		2003/03/12
Total radial radially near gap Total radial radial radial gap Total radial radial gap Total radial radial gap Total ra				DERWENT;	18:30
DERWENT; 18:30 1820 C?shape 14868 C?shaped C?shaped (radial radially) near2 gap (((360/\$ 369/\$ 29/603\$).ccls.) G11B\$) and ((piezoelectric piezo?electric) (magnetostatic magneto?static) ((secondary actuator) microactuator micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially)) DERWENT; 18:31 DERWENT; 18:31 18:30 18:30 18:31 18:31 18:32 18:32 18:32 18:32 18:32 18:32 18:32 18:32 18:32 18:32 18:32 18:32 18:32 18:32 18:32 18:32 18:33	_	767507	ring		2002/02/10
- 1820 C?shape - 14868 C?shaped - 14868 C?shaped - 3067 (radial radially) near2 gap - 726 (((360/\$ 369/\$ 29/603\$).ccls.) G11B\$) and ((piezoelectric piezo?electric) ((magnetostatic magneto?static) ((secondary actuator) microactuator micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially) IBM_TDB	_	/6/38/	111119		1
- 1820 C?shape - 14868 C?shaped - 14868 C?shaped - 3067 (radial radially) near2 gap - 726 (((360/\$ 369/\$ 29/603\$).ccls.) G11B\$) and ((piezoelectric piezo?electric) (magnetostatic magneto?static) ((secondary actuator) microactuator micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially)) EPO; JPO; DERWENT; IBM_TDB					10.30
DERWENT; 18:31	_	1820	C?shape		2003/03/12
- 14868 C?shaped EPO; JPO; DERWENT; IBM_TDB - 3067 (radial radially) near2 gap EPO; JPO; DERWENT; IBM_TDB - 726 (((360/\$ 369/\$ 29/603\$).ccls.) G11B\$) and ((piezoelectric piezo?electric) ((magnetostatic magneto?static) ((secondary actuator) microactuator micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially)			_		
Table 1					
- 3067 (radial radially) near2 gap 726 (((360/\$ 369/\$ 29/603\$).ccls.) G11B\$) and (piezoelectric piezo?electric) (magnetostatic magneto?static) ((secondary actuator) microactuator micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially) IBM_TDB EPO; JPO; DERWENT; IBM_TDB 18:33 18:33 18:33 18:33	_	14868	C?snaped		
- 3067 (radial radially) near2 gap - 726 (((360/\$ 369/\$ 29/603\$).ccls.) G11B\$) and (piezoelectric piezo?electric) (magnetostatic magneto?static) ((secondary actuator) microactuator micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially) EPO; JPO; DERWENT; IBM_TDB EPO; JPO; DERWENT; IBM_TDB					18:32
726 (((360/\$ 369/\$ 29/603\$).ccls.) G11B\$) and (piezoelectric piezo?electric) (magnetostatic magneto?static) ((secondary actuator) microactuator micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially)	_	3067	(radial radially) near2 dan		2003/03/12
726 (((360/\$ 369/\$ 29/603\$).ccls.) G11B\$) and (piezoelectric piezo?electric) (magnetostatic magneto?static) ((secondary actuator) microactuator micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially)			,		
726 (((360/\$ 369/\$ 29/603\$).ccls.) G11B\$) and (piezoelectric piezo?electric) (magnetostatic magneto?static) ((secondary actuator) microactuator micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially)				1	
(magnetostatic magneto?static) ((secondary actuator) microactuator micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially)	-	726			
((secondary actuator) microactuator micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially)				· ·	18:33
micro?actuator)) and (round circular ring C?shape C?shaped ((radial radially)				IBM_TDB	
C?shape C?shaped ((radial radially)					
				1	

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-	0		EPO; JPO;	2003/03/12	٦
		same ((piezoelectric piezo?electric)	DERWENT;	18:48	
		(magnetostatic magneto?static)	IBM_TDB		
		((secondary actuator) microactuator			ı
		micro?actuator)) same (round circular ring C?shape C?shaped ((radial			
ŀ		radially) near2 gap))			ł
-	3		770		Ì
		((piezoelectric piezo?electric)	EPO; JPO;	2003/03/12	
		(magnetostatic magneto?static)	DERWENT;	18:40	-
		((secondary actuator) microactuator	IBM_TDB		
		micro?actuator)) and (round circular			
		ring) and (C?shape C?shaped ((radial			
		radially) near2 gap))			ĺ
-	261	(((360/\$ 369/\$ 29/603\$).ccls.) G11B\$) and	USPAT;	2003/03/12	1
		((piezoelectric piezo?electric)	US-PGPUB	18:47	
		(magnetostatic magneto?static)	10102	10.17	
	1	((secondary actuator) microactuator			1
		micro?actuator)) and (round circular			
		ring) and (C?shape C?shaped ((radial			
	10077	radially) near2 gap))			
-	19077	1 (F====================================	EPO; JPO;	2003/03/12	ĺ
		(magnetostatic magneto?static)	DERWENT;	18:51	
		((secondary actuator) microactuator	IBM_TDB		
		micro?actuator)) same (round circular			
		ring C?shape C?shaped ((radial radially) near2 gap))			
-	64	((piezoelectric piezo?electric)			
	"	(magnetostatic magneto?static)	USPAT;	2003/03/12	
į		((secondary actuator) microactuator	US-PGPUB	18:49	
		micro?actuator) with (round circular			
		ring) with (C?shape C?shaped ((radial			
		radially) near2 gap))			
-	16	((piezoelectric piezo?electric)	EPO; JPO;	2002/02/10	ļ
		(magnetostatic magneto?static)	DERWENT;	2003/03/12	
		((secondary actuator) microactuator	IBM TDB	18:52	
		micro?actuator)) same (round circular	1511_155		
		ring C?shape C?shaped) same ((radial			
		radially) near2 gap)			l
-	30	(360/294.5).ccls.	USPAT;	2003/03/12	
	20	(0.00 (0.00)	US-PGPUB	18:56	
-	38	(360/294.6).ccls.	USPAT;	2003/03/12	1
_	300	(1050/004 5)	US-PGPUB	18:57	1
	392	((360/294.5).ccls.) ((360/294.6).ccls.)	USPAT;	2003/03/12	
		not ((360/66).ccls.) ((360/294.4).ccls.)	US-PGPUB	18:57	
1		((360/294.3).ccls.) ((360/294.1).ccls.)			
		((360/294).ccls.) ((360/291.9).ccls.) ((360/292).ccls.) ((360/290).ccls.)			
		((360/292).ccls.) ((360/290).ccls.)			
-	392	(((360/294.5).ccls.) ((360/294.6).ccls.))	11002 =	000045	
		not ((360/66).ccls.) ((360/294.4).ccls.)	USPAT;	2003/03/12	
1		((360/294.3).ccls.) ((360/294.1).ccls.)	US-PGPUB	18:57	
		((360/294).ccls.) ((360/291.9).ccls.)			
1		((360/292).ccls.) ((360/290).ccls.)			
		((360/240).ccls.)			
-	1030	((360/66).ccls.) ((360/294.4).ccls.)	USPAT;	2003/03/12	
]	((360/294.3).ccls.) $((360/294.1).ccls.)$	US-PGPUB	18:58	
	1	((360/294).ccls.) $((360/291.9).ccls.)$	OD LGEOD	10.30	
		((360/292).ccls.) ((360/290).ccls.)			
		((360/240).ccls.)			
_	24	((360/294.5).ccls.) not (((360/66).ccls.)	USPAT;	2003/03/12	
		((360/294.4).ccls.) $((360/294.3).ccls.)$	US-PGPUB	18:58	
		((360/294.1).ccls.) $((360/294).ccls.)$			
		((360/291.9).ccls.) ((360/292).ccls.)			
_	13	((360/290).ccls.) ((360/240).ccls.))			
	13	((360/294.6).ccls.) not (((360/66).ccls.)	USPAT;	2003/03/12	
		((360/294.4).ccls.) ((360/294.3).ccls.)	US-PGPUB	18:58	
		((360/294.1).ccls.) ((360/294).ccls.)			
		((360/291.9).ccls.) ((360/292).ccls.)			
		((360/290).ccls.) ((360/240).ccls.))		· ·	

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- 35	1 (((C C C) L C C L C .) IIUL	USPAT;	2003/03/12
- 0	(((360/66).ccls.) ((360/294.4).ccls.) ((360/294.3).ccls.) ((360/294.1).ccls.) ((360/294).ccls.) ((360/291.9).ccls.) ((360/292).ccls.) ((360/290).ccls.) ((360/240).ccls.))) (((360/294.6).ccls.) not (((360/66).ccls.) ((360/294.4).ccls.) ((360/294.3).ccls.) ((360/294.1).ccls.) ((360/294).ccls.) ((360/291.9).ccls.) ((360/292).ccls.) ((360/290).ccls.) ((360/294).ccls.))) (((360/294.5).ccls.) not (((360/294.3).ccls.) ((360/294.4).ccls.) ((360/294).ccls.) ((360/294.1).ccls.) ((360/294).ccls.) ((360/291.9).ccls.) ((360/294).ccls.) ((360/291.9).ccls.) ((360/294).ccls.) ((360/291.9).ccls.) ((360/294).ccls.) ((360/294.6).ccls.) not (((360/66).ccls.)) (((360/294.6).ccls.) not (((360/66).ccls.)) (((360/294.4).ccls.) ((360/294.3).ccls.) ((360/294.4).ccls.)	US-PGPUB US-PGPUB EPO; JPO; DERWENT; IBM_TDB	2003/03/12 19:02 2003/03/12 19:02
- 1	((360/294).ccls.) ((360/291.9).ccls.) ((360/292).ccls.) ((360/290).ccls.) ((360/240).ccls.))		
1	5189578.pn.	USPAT;	2003/03/12
1	5521778.pn.	US-PGPUB USPAT; US-PGPUB	21:13 2003/03/12